

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1060553

Luminaire Tested: S124RDR-S795D835-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-78)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S795D835-X4F0-XX-UDD-BVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

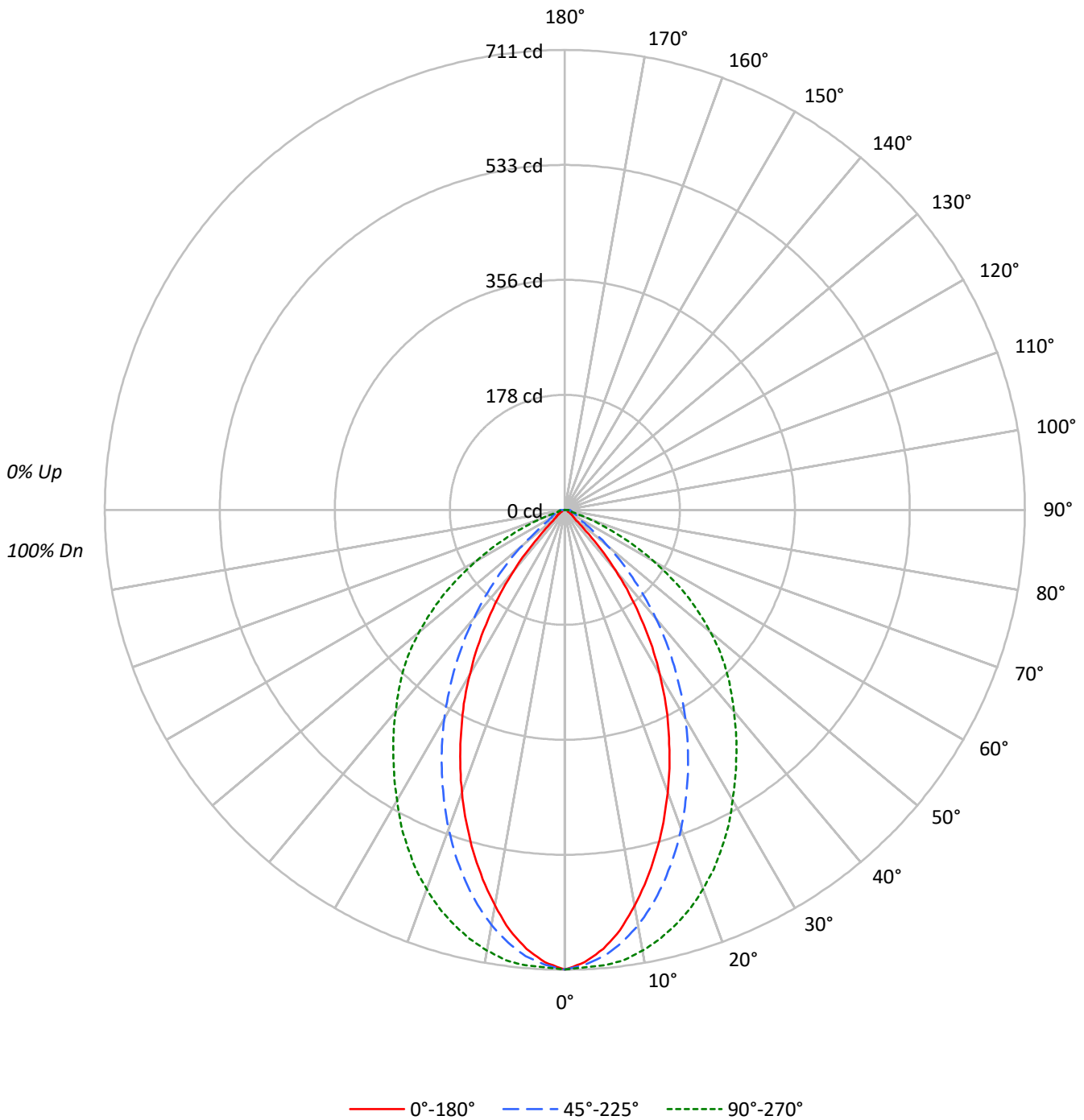
Lumens per Lamp: N/A
Luminaire Lumens: 891.8 lumens
Efficiency: N/A
Efficacy: 34.6 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									20
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																												
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																												
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81																												
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73																												
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65																												
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59																												
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54																												
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50																												
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46																												
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42																												
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6119	6119	6119
5°	5890	5988	6110
10°	5432	5703	6049
15°	4875	5295	5915
20°	4260	4813	5718
25°	3604	4275	5464
30°	2910	3706	5157
35°	2167	3097	4858
40°	1376	2455	4571
45°	550	1800	4310
50°	240	1147	3935
55°	183	593	3433
60°	129	405	2723
65°	96	403	1860
70°	96	355	854
75°	126	376	346
80°	188	422	372
85°	375	741	553

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4310 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	7.3
10°-20°	167.8	18.8
20°-30°	211.9	23.8
30°-40°	194.6	21.8
40°-50°	132.7	14.9
50°-60°	72.0	8.1
60°-70°	30.5	3.4
70°-80°	10.6	1.2
80°-90°	6.7	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	444.7	49.9
0°-40°	639.3	71.7
0°-60°	844.0	94.6
0°-90°	891.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	891.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	681	692	693	698	707	63
15°	547	565	594	636	664	152
25°	379	404	450	520	575	173
35°	206	233	295	387	462	128
45°	45	72	148	262	354	42
55°	12	13	40	144	229	11
65°	5	6	20	45	91	5
75°	4	10	11	10	10	4
85°	4	8	8	8	6	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	710.6	710.6	710.6	710.6	710.6
2.5°	700.2	708.7	704.0	705.9	707.8
5°	681.4	691.8	692.7	698.4	706.8
7.5°	655.1	667.3	674.8	688.9	702.1
10°	621.2	636.2	652.2	674.8	691.8
12.5°	585.4	601.4	624.9	656.9	679.5
15°	546.8	564.7	593.9	636.2	663.5
17.5°	506.4	526.1	560.9	610.8	645.7
20°	464.9	486.6	525.2	581.7	624.0
22.5°	422.6	445.2	487.5	551.5	601.4
25°	379.3	403.8	449.9	519.5	575.1
27.5°	337.9	360.5	411.3	487.5	548.7
30°	292.7	318.1	372.7	454.6	518.6
32.5°	251.3	275.8	333.2	420.7	490.4
35°	206.1	233.4	294.6	386.8	462.1
37.5°	163.8	190.1	256.9	354.8	434.8
40°	122.4	149.6	218.4	322.8	406.6
42.5°	81.9	111.1	181.6	289.9	380.2
45°	45.2	72.5	147.8	261.6	353.9
47.5°	23.5	39.5	115.8	233.4	325.7
50°	17.9	21.6	85.6	202.4	293.7
52.5°	15.1	16.0	58.4	171.3	261.6
55°	12.2	13.2	39.5	144.0	228.7
57.5°	9.4	10.4	28.2	117.6	192.0
60°	7.5	8.5	23.5	90.4	158.1
62.5°	5.6	6.6	22.6	66.8	124.2
65°	4.7	5.6	19.8	45.2	91.3
67.5°	3.8	5.6	16.9	29.2	61.2
70°	3.8	7.5	14.1	18.8	33.9
72.5°	3.8	8.5	12.2	12.2	12.2
75°	3.8	10.4	11.3	10.4	10.4
77.5°	3.8	9.4	9.4	9.4	9.4
80°	3.8	8.5	8.5	8.5	7.5
82.5°	3.8	7.5	8.5	8.5	6.6
85°	3.8	7.5	7.5	7.5	5.6
87.5°	2.8	7.5	7.5	7.5	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)